

Title (en)

Gas turbine engine fan blade retention

Title (de)

Befestigung von Bläuserschaufeln bei einem Gasturbinentriebwerk

Title (fr)

Fixation des aubes de soufflante pour un turboréacteur

Publication

**EP 0821133 A1 19980128 (EN)**

Application

**EP 97304463 A 19970625**

Priority

GB 9615826 A 19960727

Abstract (en)

A fan for a gas turbine engine comprises a rotary disc carrying an annular array of radially extending fan blades. Each fan blade has a root portion which is radially constrained within a generally axially extending groove formed within a disc rim. The blade root comprises two portions each radially convergent toward one another with respect to the axis of rotation of the disc. The groove within the disc also comprises two base portions each being correspondingly radially convergent toward one another. Axial retention of the blade root within the groove is achieved by the centrifugal component of the blade load acting in an opposite direction to any applied axial load in the forward or rearward direction. <IMAGE>

IPC 1-7

**F01D 5/30**

IPC 8 full level

**F01D 5/30** (2006.01)

CPC (source: EP US)

**F01D 5/30** (2013.01 - EP US); **F01D 5/3007** (2013.01 - EP US); **F01D 5/323** (2013.01 - EP); **F01D 5/326** (2013.01 - US)

Citation (search report)

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